

Electronic control panel series GUARDIAN E



GUARDIAN E series control panel is an electric panel which gives the full protection for your motor/pump. GUARDIAN E has been designed to operate connected to submerged and surface electric pumps, but may be used with any asynchronous electric motor.

A wide range of electric pumps may be managed with just one version because GUARDIAN E has a scale of adjustable values that includes a wide range of motor sizes

Working based on a microprocessor, GUARDIAN E can protect your pump in the following situation:

- ON-OFF (direct DOL)
- Overload
- Missing phase (two phase running)
- Surge
- Short circuit
- Dry running operation (no load)

GUARDIAN E indicates the operating state of the system by displaying, through its display, the following situations:

- 1- Self-diagnosis upon start-up (indication of the frequency).
- 2- Normal operation (indication of the input current).
- 3- Situation of dry operation/low load (display of SB blinking).
- 4- Stand-by for restoring of level (display of SB, load disconnected).
- 5- Final lack of water, (display of UL, load disconnected).
- 6- Overload in progress (display of input current blinking).
- 7- Overload alarm (display of the OL blinking, load disconnected).
- 8- After having eliminated any anomalies, GUARDIAN E may be reset by putting the ON/OFF switch to OFF and then ON again.

GUARDIAN E has the following advantages:

- 1- All the three phase motors between 0,37kW and 7.5kW can be controlled with one system in 3 versions. The adjustment of the rated overload cut-out current is done by means of a scaled potentiometer inside the box.
- 2- In case of a missing phase, overload, or an eventual external signal [OL].
- 3- The water level is not controlled with an error prone and costly electrode, but via control on the PF (power factor).
- 4- In case of dry operation the system checks automatically 4 times (after 10,20,45 and 90 min., whether the
- 5- The system may be connected to external automated systems such as pressure switches, floats, alarm signals, timers, computers, etc. through an electrically clean (not live) NC contact connected to the SW terminals on the main terminal board.

GUARDIAN E is available in 4 sizes:

GUARDIAN ME

GUARDIAN 1E

GUARDIAN 2E

GUARDIAN 2A